

AMENDMENT

Listing of Claims:

The following listing of claims replaces all previous listings or versions thereof:

1. (Currently amended) An isolated antimicrobial peptide of 12-37 residues, the peptide comprising one of the amino acid sequences selected from the group consisting of:

KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),

KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),

KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),

KNLRRIRKIIHIKKYG (SEQ ID NO: 8),

NLRRIRKIIHIKKY (SEQ ID NO 9),

NIRRIIRKIIHIKKY (SEQ ID NO: 10),

LRRIIRKIIHIKK-NH₂ (SEQ ID NO: 11),

LRRIIRKIIHIKK (SEQ ID NO: 12),

IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),

IRRIIRKIIHIKK (SEQ ID NO: 14),

LRRIIRKIIHIK-NH₂ (SEQ ID NO: 15),

RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),

RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),

RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21),

LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),

LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),

~~RKFRNKIKEKLKKIG (SEQ ID NO: 24),~~

KIKEKLKKIGQKIQG (SEQ ID NO: 25),

KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRIRKIIHIKKYGPILRIIRIG-NH₂ (SEQ ID NO: 28).

2. (Canceled)
3. (Currently amended) A pharmaceutical composition comprising an antimicrobial peptide of 12 to 37 residues, the peptide comprising one of the amino acid sequences selected from the group consisting of:

KNLRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 1),
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6),
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7),
KNLRRIIRKIIHIKKYG (SEQ ID NO: 8),
NLRRIIRKIIHIKKY (SEQ ID NO 9),
NIRRIIRKIIHIKKY (SEQ ID NO: 10),
LRRIIRKIIHIKK-NH₂ (SEQ ID NO: 11),
LRRIIRKIIHIKK (SEQ ID NO: 12),
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13),
IRRIIRKIIHIKK (SEQ ID NO: 14),
LRRIIRKIIHIK-NH₂ (SEQ ID NO: 15),
RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16),
RRIIRKIIHIK-NH₂ (SEQ ID NO: 17),
RKRLRKFNRNKIKEKLKKIGQKI (SEQ ID NO: 21),
LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22),
LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23),
~~RKFRNKIKEKLKKIG (SEQ ID NO: 24),~~
KIKEKLKKIGQKIQG (SEQ ID NO: 25),
KIKEKLKKIGQKIQGLL (SEQ ID NO: 26),

and

KNLRRIIRKIIHIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28),
formulated in a pharmaceutically acceptable carrier.

4-33. (Canceled)

34. (Previously presented) An antimicrobial peptide consisting of a sequence
KNLRRIRKIIHIKKYG-NH₂ (SEQ ID NO: 1).
35. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIKKYG-NH₂ (SEQ ID NO: 6).
36. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNIRRIIRKIIHIKKYG (SEQ ID NO: 7).
37. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
KNLRRIRKIIHIKKYG (SEQ ID NO: 8).
38. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NLRRIRKIIHIKKY (SEQ ID NO 9).
39. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
NIRRIIRKIIHIKKY (SEQ ID NO: 10).
40. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRIRKIIHIKK-NH₂ (SEQ ID NO: 11).
41. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
LRRIRKIIHIKK (SEQ ID NO: 12).
42. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
IRRIIRKIIHIKK-NH₂ (SEQ ID NO: 13).
43. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence
IRRIIRKIIHIKK (SEQ ID NO: 14).

44. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRRIRKIIHIK-NH₂ (SEQ ID NO: 15).
45. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIKK-NH₂ (SEQ ID NO: 16).
46. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RRIIRKIIHIK-NH₂ (SEQ ID NO: 17).
- 47-48. (Canceled)
49. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKRLRKFRNKIKEKLKKIGQKI (SEQ ID NO: 21).
50. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKI (SEQ ID NO: 22).
51. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence LRKFRNKIKEKLKKIGQKIQG (SEQ ID NO: 23).
52. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence RKFRNKIKEKLKKIG (SEQ ID NO: 24).
53. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQG (SEQ ID NO: 25).
54. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KIKEKLKKIGQKIQLL (SEQ ID NO: 26).

55. (Previously presented) The antimicrobial peptide of claim 1, consisting of the sequence KNLRRIRKIIHIKKYGPTILRIIRIIG-NH₂ (SEQ ID NO: 28).